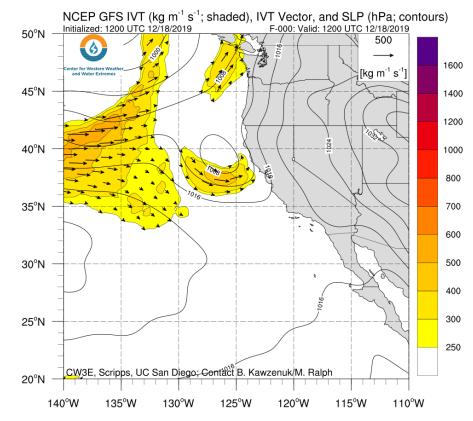
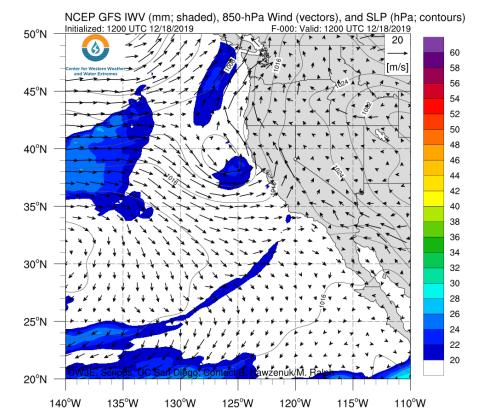


Landfalling AR brings heavy rainfall and mountain snowfall to the Pacific Northwest

- AR conditions persisted for 24–48 hours over coastal and interior sections of the Pacific Northwest
- Some locations along the coast of Oregon and Northern California experienced AR conditions for more than 48 hours
- Storm total precipitation exceeded 5 inches over much of western Oregon and western Washington
- More than 2 feet of snow fell in the highest elevations of the North Cascades

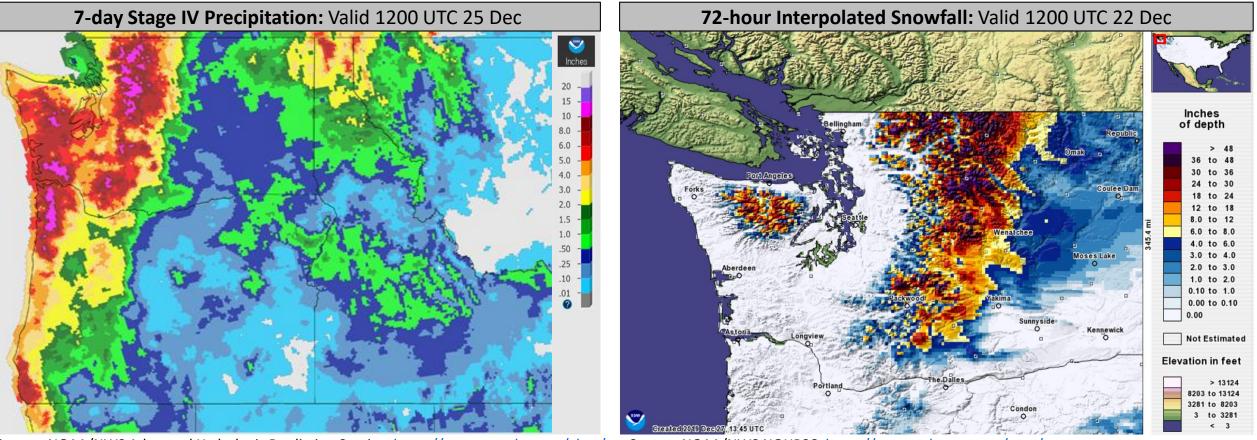






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Source: NOAA/NWS Advanced Hydrologic Prediction Service, <u>https://water.weather.gov/ahps/</u>

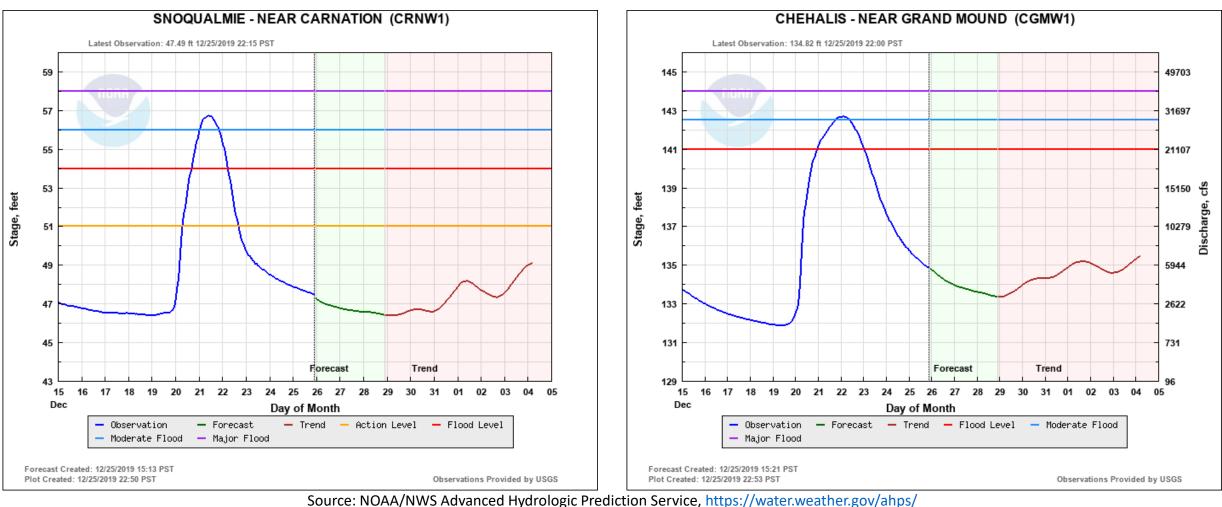
Source: NOAA/NWS NOHRSC, https://www.wrh.noaa.gov/map/

- Total estimated precipitation over the 7-day period ending 1200 UTC (4 AM PST) 25 Dec exceeded 5 inches in portions of northwestern Oregon and western Washington, with the highest amounts (> 10 inches) over the Coast Ranges and Washington Cascades
- More than 2 inches of precipitation was also observed in northeastern Washington, northern Idaho, and northwestern Montana
- More than 6 inches of snow fell over the Olympic Mountains and Washington Cascades, with the highest amounts (> 2 feet) in the North Cascades



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- Heavy rainfall on 19–20 Dec resulted in moderate flooding along the Snoqualmie River (near Carnation, WA) and the Chehalis River (near Ground Mound, WA)
- The Chehalis River near Ground Mound remained above flood stage for 48 hours



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Source: City of Bellevue

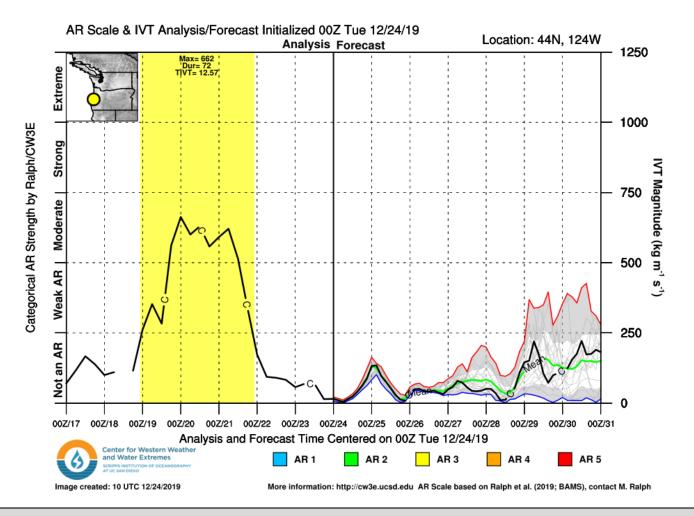
Source: South King Fire & Rescue

- NWS Seattle received several reports of flooded roadways and landslides in King and Pierce Counties on 20 Dec
- A landslide near Tacoma, WA, disrupted Amtrak rail service between Seattle and Tacoma



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• Some locations along the coast of Oregon and Northern California experienced weak-to-moderate AR conditions for more than 48 hours (AR3 based on the *Ralph et al. (2019)* AR Scale)

• AR conditions were observed for 72 consecutive hours near Florence, OR